FA Part 2 Mathematics Chapter 5 Test Online

Sr	Questions	Answers Choice
1	The region of the graph ax + by > c is called _____ half plane:	A. Open B. Boundary of C. Closed D. None of these
2	A corner point is the point of intersection of:	A. x-axis & y - axis B. Boundary lines C. Any two lines D. None
3	Question Image	A. One variable B. Three variable C. Two variable D. Four variable
4	ax + by < c is an inequality of:	A. One variable B. Threevariable C. Twovariable D. Fourvariable
5	Question Image	A. Above B. Left C. Below D. Right
6	Question Image	A. Left or right B. Upper or lower C. Open D. None of these
7	ax + b > c is an inequality of:	A. One variable B. Three variable C. Two variable D. Four variable
8	The order (or sense) of an inequality is changed by _____, it each side by a negative constant.	A. Adding B. Subtracting C. Dividing D. None of these
9	For different values of k, the equation 4x + 5y = k represents lines _____ to the line 4x + 5y = 0.	A. Perpendicular B. Parallel C. Equal D. None of these
10	x = a is a vertical line perpendicular to _____.	A. x - axis B. x - axis may be C. y - axis D. None of these
11	x = 4 is the solution of inequality:	A. x + 3 > 0 B. x - 3 < 0 C. -2x + 3 > 0 D. x + 3 < 0
12	A function, which is to be maximized or minimized is called an _____:	A. Maximum function B. Objective funciton C. Minimum function D. None of these
13	(1, 0) is the solution of inequality :	A. 7x + 2y < 8 B. x - 3y < 0 C. 3x + 5y > 6 D. -3x + 5y > 2
14	A point of a solution region where two of its boundary lines intersects is called a _____ point of the solution region:	A. Maximum B. Corner C. Minimum D. None of these
15	If the line segment obtained by joining any two points of a region lies entirely within the region, then the region is called _____:	A. Maximum B. Vertex C. Minimum D. Convex

16	Question Image	A. (1, 1) B. (1, 3) C. (1, 4) D. (1, 5)
17	There are _____ feasible solutions in the feasible region:	A. Finitely B. Two C. Infinitely many D. Three
18	The operation _____ by a positive constant to each side of inequality will affect the order (or sense) of inequality:	A. Adding B. Subtracting C. Multiplying D. None of these
19	y = b is a horizontal line perpendicular to _____:	A. x - axis B. y - axis may be C. y - axis D. None of these
20	Question Image	A. One variable B. Three variable C. Two variable D. Four variable
21	x = c is a vertical line parallel to _____.	A. x-axis B. y-axis may be C. y-axis D. None of these
22	Question Image	A. At B. Not on C. On D. None of these
23	A line which divides a plane into two parts is called:	A. Boundary point B. Boundary line C. Feasible line D. None
24	The inequality x < a is the open half plane to the _____ of the boundary line x = a:	A. Above B. Left C. Below D. Right
25	The feasible solution, which maximizes or minimizes the objective function, is called the _____:	A. Maximum solution B. Optimal solution C. Minimum solutions D. None of these
26	The system of _____ involved in the problem concerned is called problem constraints:	A. Linear inequalities B. Equations C. Linear equalities D. None of these
27	-4 < y < 4 is the solution of the following:	A. y = 5 B. y = 3 C. y = -4 D. y = 4
28	The graph of linear equation of the form ax + by = c is a line, which divides the plane into _____ disjoint regions, where a, b and c are constants and a, b are not both zero.	A. One B. Two C. Thre D. None of these
29	The ordered pair _____ is a solution of the inequality x + 2y < 6.	A. (3, 3) B. (1, 1) C. (4, 4) D. (5, 5)
30	The graph of 2x + y < 2 is the open half plane which is _____ the origin side of 2x + y = 2:	A. At B. Not an C. On D. None of these
31	The non-negative inequalities are called:	A. Parameters B. Constants C. Decision variables D. Vertices
32	The graph of linear equation of the form ax + by = c is a _____ where a, b and c are constants and a, b are not both zero.	A. Curve B. Circle C. Straight line D. Parabola
33	A region, which is restricted to the _____ quadrant, is referred to as a feasible region for the set of given contraints	A. First B. Third C. Second

	the set of given constraints.	D. Fourth
34	Non-vertical lines divide the plane into_____half plane:	A. Upper and lower B. Many C. Left and Right D. None of these
35	The feasible region is _____ if it can easily by enclosed within a circle.	A. Bounded B. Exist C. Unbounded D. None of these
36	There are _____ ordered pairs that satisfy the inequality ax + by > c.	A. Finitely many B. Two C. Infinitely many D. Four
37	x = 2 is a vertical line perpendicular to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
38	Question Image	A. Open B. Closed C. Open as well as closed D. None of these
39	y = b is a horizontal line parallel to _____:	A. x - axis B. x - axis may be C. y - axis D. None of these
40	A solution of a linear inequality in x and y is an ordered pair of numbers, which _____ the inequality.	A. Does not satisfy B. May be stisfied C. Satisfies D. None of these
41	The inequality y > b is the open half plane to the _____ of the boundary line y = b:	A. Above B. Left C. Below D. Right
42	ax + b < c is a inequality of:	A. One variable B. Two variable C. Three variable D. Four variable